Balancing Chemical Equations Worksheet

1. _____ H_2 + _____ O_2 → _____ H_2O
2. _____ N_2 + _____ H_2 → _____ NH_3
3. _____ S_8 + _____ O_2 → _____ SO_3
4. _____ N_2 + _____ O_2 → _____ N_2O
5. _____ HgO → _____ Hg + _____ O_2
6. _____ CO_2 + _____ H_2O → _____ $C_6H_{12}O_6$ + _____ O_2
7. _____ Zn + _____ HCl → _____ $ZnCl_2$ + _____ H_2
8. _____ $SiCl_4$ + _____ H_2O → _____ H_4SiO_4 + _____ HCl
9. _____ Na + _____ H_2O → _____ $NaOH$ + _____ H_2
10. _____ H_3PO_4 → _____ $H_4P_2O_7$ + _____ H_2O
11. _____ $C_{10}H_{16}$ + _____ Cl_2 → _____ C + _____ HCl
12. _____ CO_2 + _____ NH_3 → _____ $OC(NH_2)_2$ + _____ H_2O
13. _____ Si_2H_3 + _____ O_2 → _____ SiO_2 + _____ H_2O_3
14. _____ $Al(OH)_3$ + _____ H_2SO_4 → _____ $Al_2(SO_4)_3$ + _____ H_2O
15. _____ Fe + _____ O_2 → _____ Fe_2O_3
16. _____ $Fe_2(SO_4)_3$ + _____ KOH → _____ K_2SO_4 + _____ $Fe(OH)_3$
17. _____ $C_7H_6O_2$ + _____ O_2 → _____ CO_2 + _____ H_2O
18. _____ H_2SO_4 + _____ HI → _____ H_2S + _____ I_2 + _____ H_2O
19. _____ FeS_2 + _____ O_2 → _____ Fe_2O_3 + _____ SO_2
20. _____ Al + _____ FeO → _____ Al_2O_3 + _____ Fe
21. _____ Fe_2O_3 + _____ H_2 → _____ Fe + _____ H_2O
22. _____ Na_2CO_3 + _____ HCl → _____ $NaCl$ + _____ H_2O + _____ CO_2
23. _____ K + _____ Br_2 → _____ KBr
24. _____ C_7H_{16} + _____ O_2 → _____ CO_2 + _____ H_2O
25. _____ P_4 + _____ O_2 → _____ P_2O_5

26. Dicarbon dihydride + Oxygen → Carbon dioxide + Water
27. Potassium oxide + Water → Potassium hydroxide
28. Hydrogen peroxide → Water + Oxygen
29. Aluminum + Oxygen → Aluminum oxide
30. Sodium peroxide + Water → Sodium hydroxide + oxygen
31. Silicon dioxide + Hydrogen fluoride → Silicon tetrafluoride + Water
32. Carbon + water → Carbon monoxide + Hydrogen
33. Potassium chlorate → Potassium chloride + Oxygen
34. Potassium chlorate → Potassium perchlorate + Potassium chloride
35. Aluminum sulfate + Calcium hydroxide → Aluminum hydroxide + Calcium sulfate
36. Tetraphosphorus decoxide + Water → Hydrogen phosphate
37. Iron III chloride + Ammonium hydroxide → Iron III hydroxide + Ammonium chloride
38. Antimony + Oxygen → Tetrantimony Hexoxide
39. Tricarbon octahydride + Oxygen → Carbon dioxide + water
40. Dinitrogen pentoxide + Water → Hydrogen nitrate
41. Nitrogen trihydride + Nitrogen monoxide → Nitrogen + Water
42. Aluminum + Hydrogen chloride → Aluminum chloride + Hydrogen
43. Phosphorus pentachloride + water → Hydrogen chloride + Hydrogen phosphate
44. Magnesium + Nitrogen → Magnesium nitride
45. Iron + Water → Iron III oxide + Hydrogen
46. Sodium hydroxide + Chlorine → Sodium chloride + Sodium hypochlorite + water
47. Lithium oxide + Water → Lithium hydroxide
48. Ammonium nitrate → Dinitrogen monoxide + water
49. Lead II nitrate → Lead II oxide + Nitrogen dioxide + Oxygen
50. Calcium chlorate → Calcium chloride + Oxygen